

IN THE CLAIMS

Please amend the claims as indicated below.

1. (Currently Amended) A process for producing multicoat color and/or effect paint systems comprising

- (A) at least one primer,
- (B) at least one color and/or effect basecoat, and
- (C) at least one clearcoat

comprising

(I) applying at least one primer (A) curable thermally and with actinic radiation to a substrate to give at least one primer film (A),

(II) exposing the at least one primer film (A) to actinic radiation to give at least one partially cured primer film (A) which can still be thermally cured,

(III) applying at least one pigmented coating material (B) curable thermally and/or ~~at least one pigmented coating material (B) curable thermally and with actinic radiation~~ to the outer surface of the partially cured at least one primer film (A) to give at least one pigmented film (B) which can still be cured thermally ~~or both thermally and with actinic radiation~~,

(IV) exposing the at least one pigmented film (B) curable thermally and with actinic radiation to actinic radiation to give at least one partially cured film (B) which can still be thermally cured,

(IV) applying at least one clearcoat material (C) curable with actinic radiation and/or ~~at least one clearcoat material (C) curable thermally and with actinic radiation~~ to the outer surface of the at least one ~~pigmented~~ ~~partially cured~~ film (B) to give at least one clearcoat film (C) curable with actinic radiation ~~and/or at least one clearcoat film (C) curable thermally and with actinic radiation~~,

(VI) exposing the at least one clearcoat film (C) curable with actinic radiation and/or thermally and with actinic radiation to actinic radiation to give at least one clearcoat cured with actinic radiation and/or at least one partially cured clearcoat film (C) which can still be thermally cured, and

(VII) subjecting the at least one primer film (A), and the at least one pigmented film (B), and the still thermally curable at least one clearcoat film (C) to joint thermal curing.

2. (Previously Presented) The process of claim 1, wherein the substrate comprises one of a motor vehicle body or a mounted component of a vehicle body.

3. (Previously Presented) The process of claim 2, wherein the mounted component is made of sheet molded compound (SMC), bulk molded compound (BMC), injection molded compound (IMC), or reaction injection molded compound (RIMC).

4. (Previously Presented) The process of claim 1, wherein the primer (A) comprises

(a1) at least one constituent containing

(a11) on average per molecule at least two functional groups containing at least one bond which can be activated with actinic radiation and which serves for crosslinking with actinic radiation, and

(a12) optionally, at least one isocyanate-reactive group,

(a2) at least one thermally curable constituent containing at least two isocyanate-reactive groups, and

(a3) at least one polyisocyanate.

5. (Previously Presented) The process of claim 4, wherein the isocyanate-reactive groups (a12) are present and are selected from the group consisting of hydroxyl, thiol, primary amino groups, secondary amino groups, imino groups, and combinations thereof.

6. (Previously Presented) The process of claim 4, wherein the functional groups (a11) are selected from the group consisting of carbon-hydrogen single bonds, carbon-carbon single bonds, carbon-oxygen single bonds, carbon-nitrogen single bonds, carbon-phosphorus single bonds, carbon-silicon single bonds, carbon-carbon double bonds, carbon-oxygen double bonds, carbon-nitrogen double bonds, carbon-phosphorus double bonds, carbon-silicon double bonds, and combinations thereof.

7. (Previously Presented) The process of claim 6, wherein the functional groups (a11) are carbon-carbon double bonds.

8. (Previously Presented) The process of claim 7, wherein the carbon-carbon double bonds are present in at least one of a (meth)acrylate group, an ethacrylate group, a crotonate group, a cinnamate group, a vinyl ether group, a vinyl ester group, an ethenylarylene group, a dicyclopentadienyl group, a norbornenyl group, an isoprenyl group, an isopropenyl group, an allyl group, a butenyl groups, an ethenylarylene ether group, a dicyclopentadienyl ether group, a norbornenyl ether group, an isoprenyl ether group, an isopropenyl ether group, an allyl ether group, a butenyl ether groups, an ethenylarylene ester group, a dicyclopentadienyl ester group, a norbornenyl ester group, an isoprenyl ester group, an isopropenyl ester group, an allyl ester group, and/or a butenyl ester group.

9. (Previously Presented) The process of claim 8, wherein the double bonds are present in acrylate groups.

10. (Previously Presented) The process of claim 4, wherein the functional groups (a12) are present and are hydroxyl groups.

11. (Previously Presented) The process of claim 4, wherein the constituents (a2) are selected from the group consisting of oligomers, polymers, and

combinations thereof, wherein the oligomers and polymers are each at least one of linear, branched, block, comb, and/or random.

12. (Previously Presented) The process of claim 11, wherein the oligomers and polymers (a2) are each selected from the group consisting of (meth)acrylate (co)polymers, polyesters, alkyds, amino resins, polyurethanes, polylactones, polycarbonates, polyethers, epoxy resin-amine adducts, (meth)acrylate diols, partially hydrolyzed polyvinyl esters, polyureas, and combinations thereof.

13. (Previously Presented) The process of claim 4, wherein a ratio of isocyanate groups to a sum of the isocyanate-reactive functional groups in the primer (A) is <1.3.

14. (Previously Presented) The process of claim 4, wherein the thermally curable constituent (a2) has a molecular weight polydispersity (mass-average molecular weight M_m/number-average molecular weight M_n) of <4.

15. (Previously Presented) The process of claim 4, wherein in the dual-cure primer (A) a ratio of solids content of constituents curable with actinic radiation (UV) to solids content of thermally curable constituents (TH), (UV)/(TH), is from 0.2 to 0.6.

16. (Previously Presented) The process of claim 4, wherein the thermally curable constituent (a2), based on its overall amount, has an aromatic structural unit content of <5% by weight.

17. (New) The process of claim 1, wherein the at least one pigmented coating material (B) curable thermally is further curable with actinic radiation, and wherein the process further comprises exposing the at least one pigmented film (B) to actinic radiation prior to applying the at least one clearcoat material (C).

18. (New) The process of claim 1, wherein the at least one clearcoat film (C) curable with actinic radiation is further curable thermally, and wherein the process further comprises subjecting the at least one clearcoat film (C) curable thermally and with actinic radiation to joint thermal curing with the at least one primer film (A), and the at least one pigmented film (B) following the exposing the at least one clearcoat film (C) to actinic radiation.

19. (New) A process for producing multicoat color and/or effect paint systems comprising

- (A) at least one primer,
- (B) at least one color and/or effect basecoat, and
- (C) at least one clearcoat

comprising

(I) applying at least one primer (A) curable thermally and with actinic radiation to a substrate to give at least one primer film (A),

(II) exposing the at least one primer film (A) to actinic radiation to give at least one partially cured primer film (A) which can still be thermally cured,

(III) applying at least one pigmented coating material (B) curable thermally to the outer surface of the partially cured at least one primer film (A) to give at least one pigmented film (B) which can still be cured thermally,

(IV) applying at least one clearcoat material (C) curable thermally and with actinic radiation to the outer surface of the at least one pigmented film (B) to give at least one clearcoat film (C) curable thermally and with actinic radiation,

(V) exposing the at least one clearcoat film (C) curable thermally and with actinic radiation to actinic radiation to give at least one partially cured clearcoat film (C) which can still be thermally cured, and

(VII) subjecting the at least one primer film (A), the at least one pigmented film (B), and the still thermally curable at least one clearcoat film (C) to joint thermal curing.

20. (New) A process for producing multicoat color and/or effect paint systems comprising

- (A) at least one primer,
- (B) at least one color and/or effect basecoat, and
- (C) at least one clearcoat

comprising

(I) applying at least one primer (A) curable thermally and with actinic radiation to a substrate to give at least one primer film (A),

(II) exposing the at least one primer film (A) to actinic radiation to give at least one partially cured primer film (A) which can still be thermally cured,

(III) applying at least one pigmented coating material (B) curable thermally and with actinic radiation to the outer surface of the partially cured at least one primer film (A) to give at least one pigmented film (B) which can still be cured both thermally and with actinic radiation,

(IV) exposing the at least one pigmented film (B) curable thermally and with actinic radiation to actinic radiation to give at least one partially cured film (B) which can still be thermally cured,

(V) applying at least one clearcoat material (C) curable thermally and with actinic radiation to the outer surface of the at least one partially cured film (B) to give at least one clearcoat film (C) curable thermally and with actinic radiation,

(VI) exposing the at least one clearcoat film (C) curable thermally and with actinic radiation to actinic radiation to give at least one partially cured clearcoat film (C) which can still be thermally cured, and

(VII) subjecting the at least one primer film (A), the at least one pigmented film (B), and the still thermally curable at least one clearcoat film (C) to joint thermal curing.